The roof of the the referenzobject for Tide and ecactus

The owner of the house who allow me to use his roof for our referenzsystem is a softwareengineer and has some expirence with PV-systems. He works at autodesk, a company that produces CAD software for architects
.
That's why I can provide CAD drawings for planning

The roof

3D Model of the house for pv-systems

https://drive.autodesk.com/de29162e7/shares/SHd38bfQT1fb47330c99ded0a8f95c807315

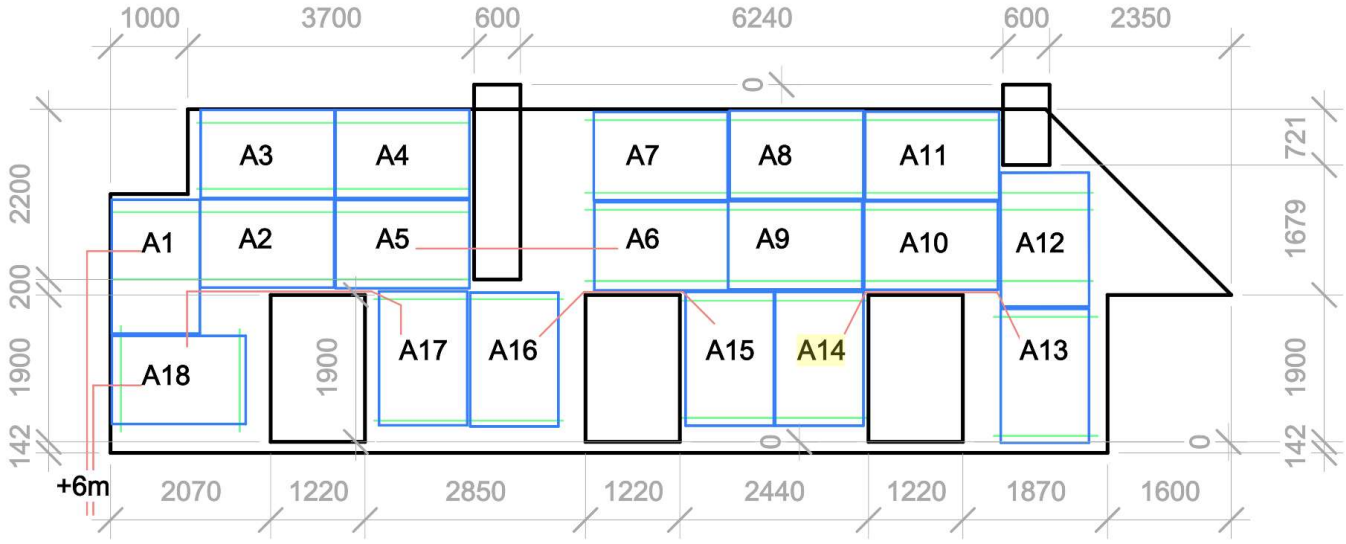
just as a playful visualisation

Rough estimate of available roof areas for solar modules

CAD drawing of the available roof with exact dimensions

https://drive.autodesk.com/de29162e7/shares/SHd38bfQT1fb47330c99a5f3f96313f28ab6

18 Tide-panels laid; each blue rectangle is 1730mm x 1140mm, 6 x 6mm larger than the pv panels:



When you klick on the following link you will see a try to plan the system with sma sunnydesign which the owner did

https://waldrain.github.io/doc/pv/2023-02-19_h30_ne_proposal_tidesolar/h30_ne_tidesolar_18.pdf

This Bill of Material (BOM) is a suggestion that gave the houseowner a lot of thought, but it doesn't have to be the same!

Please take the BOM as a proposal not as a must!

- Bill of materials:

Component	Amount	Note
Roof mounting hook	52 pc	Dachhaken
Mounting bracket	57 m	Montageschiene
Bracket connector	8 pc	Schienenverbinder
End clamp	30 pc	Endklemme
Middle clamp	21 pc	Mittelklemme
PV panel	18 pc	TD-410MC-108HC 7380 Wp 675 Voc 14.15 Imp
PV cable 2 metre	4 pc	700V 15A 5mm diameter
PV cable 9 metre	2 pc	19mm2 cross section area
PV disconnector	1 pc	DC circuit breaker + surge protection + fuses
Inverter	1 pc	1000V DC in 230V 3 phase 8kW AC out
Storage	1 pc	20kWh 48V DC battery

The exact lengh of each single mounting rails can be seen in the drawings or just ask me
Tide should chosse the fitting inverter.

Well, the storage wish would be a chance to have the new Agave SH plus as a reference in place…

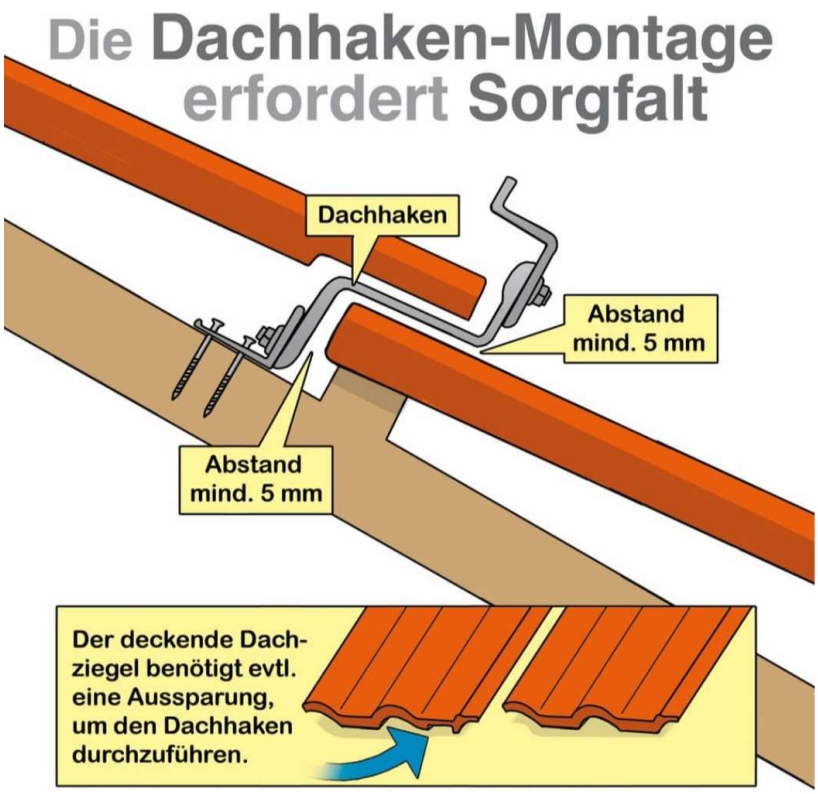
And as the monitoringsystem can be used online (as far as I know an hope) It will be a good chance to have reas data for selling support for each salesperson

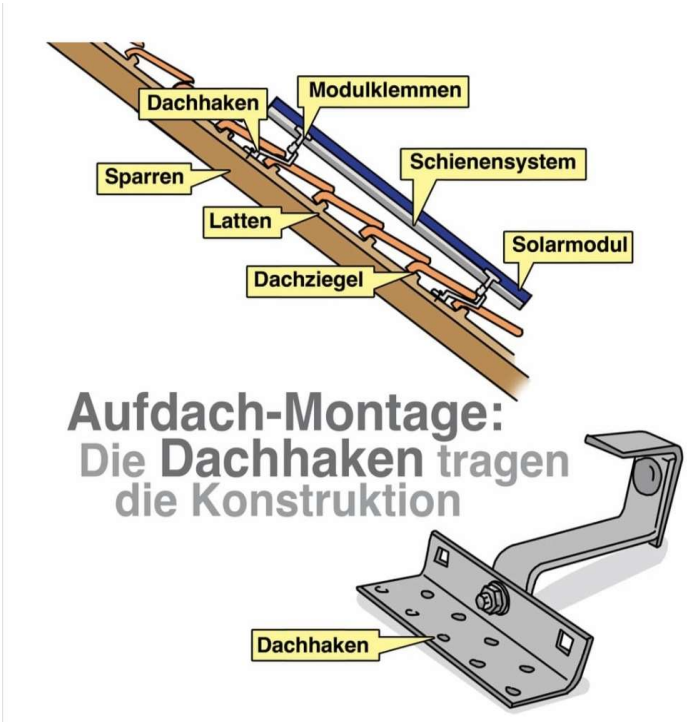
The following picturces should just illustrate the connection to the roof.

In Germany, aluminum is usually used as the substructure, but it can also be steel if it doesn't oxidized and if the measurements are exact

Dachhaken

Dachhaken





Aufdach-Montage: Die Dachhaken tragen die Konstruktion

Montageschiene

Schienenverbinder

Endklemme

Mittelklemme